

Sergey L. Napelenok, Physical Scientist, in EPA's National Exposure Research Laboratory

Computational Exposure Division

[Mailing Address](#)

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Areas of Expertise: I mainly work on development and evaluation of photochemical air quality models and their applications to study air pollutants for purposes of control strategy, health impacts, and climate interactions. I have been involved in a wide of range projects including model sensitivity and uncertainty analysis using instrumented models, integrating satellite observations with modeling results, development of emission inventories, regional source apportionment, future climate scenarios, and interpreting modeling results for policy applications. I develop and publicly release air quality model enhancements such as CMAQ-DDM-3D and CMAQ-ISAM.

Select Publications:

Mathur, R., J. Xing, D. Kang, S. Napelenok, C. Hogrefe, G. Sarwar, AND Jon Pleim.
Characterizing the Influence of Hemispheric Transport on Regional Air Pollution. 10th International Conf. on Air Quality-Science & Application, Milan, ITALY, March 14 - 18, 2016.

Mathur, R., J. Xing, D. Kang, S. Napelenok, C. Hogrefe, G. Sarwar, AND Jon Pleim. Modeling Analysis of Multi-Decadal Trends in Ozone and Precursor Species across the Northern Hemisphere and the United States. ENV-VISION Conference, Washington, DC, May 10 - 11, 2016.

Bash, J., Johnt Walker, M. Shephard, K. Cady-Pereira, S. Napelenok, D. Henze, AND E. Cooter. Modeling Atmospheric Reactive Nitrogen. American Society of Animal Science 2016 JAM, Salt Lake City, UT, July 19 - 23, 2016.

View more research publications by [Sergey Napelenok](#).

Education:

- B.S. Civil Engineering, Washington State University, 2000
- M.S. Civil Engineering, Georgia Institute of Technology, 2001
- Ph.D. Environmental Engineering, Georgia Institute of Technology, 2006

Professional Experience:

- Physical Scientist, U.S. Environmental Protection Agency, Research Triangle Park, NC, 2006 – Present
- Graduate Research Assistant, Department of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA, 2000 – 2006
- Technical Assistant II, Laboratory for Atmospheric Research, Washington State University, Pullman, WA, 1996 - 2000